



Artificial Software Diversification for WebAssembly

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Abstract

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Keywords: Lorem, Ipsum, Dolor, Sit, Amet

Sammanfattning

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LIST OF PAPERS

1. *WebAssembly Diversification for Malware Evasion*

Javier Cabrera-Arteaga, Tim Toady, Martin Monperrus, Benoit Baudry
Computers & Security, Volume 131, 2023

<https://www.sciencedirect.com/science/article/pii/S0167404823002067>

2. *Wasm-mutate: Fast and Effective Binary Diversification for WebAssembly*

Javier Cabrera-Arteaga, Nicholas Fitzgerald, Martin Monperrus, Benoit Baudry

3. *Multi-Variant Execution at the Edge*

Javier Cabrera-Arteaga, Pierre Laperdrix, Martin Monperrus, Benoit Baudry

Conference on Computer and Communications Security (CCS 2022), Moving Target Defense (MTD)

<https://dl.acm.org/doi/abs/10.1145/3560828.3564007>

4. *CROW: Code Diversification for WebAssembly*

Javier Cabrera-Arteaga, Orestis Floros, Oscar Vera-Pérez, Benoit Baudry, Martin Monperrus

Network and Distributed System Security Symposium (NDSS 2021), MADWeb

<https://doi.org/10.14722/madweb.2021.23004>

5. *Superoptimization of WebAssembly Bytecode*

Javier Cabrera-Arteaga, Shrinish Donde, Jian Gu, Orestis Floros, Lucas Satabin, Benoit Baudry, Martin Monperrus

Conference Companion of the 4th International Conference on Art, Science, and Engineering of Programming (Programming 2021), MoreVMs

<https://doi.org/10.1145/3397537.3397567>

6. *Scalable Comparison of JavaScript V8 Bytecode Traces*

Javier Cabrera-Arteaga, Martin Monperrus, Benoit Baudry
11th ACM SIGPLAN International Workshop on Virtual Machines and

Intermediate Languages (SPLASH 2019)
<https://doi.org/10.1145/3358504.3361228>

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ACRONYMS

List of commonly used acronyms:

Wasm WebAssembly

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Part I

Thesis

